AMENDMENT OF SOLICITA		ION OF CONTRACT	ONTR	ACT ID CODE		PAGE O	11_
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REC). NO.		10-21/-	T NO. (If app	icable)
M044	10/1/05	N/A 7. ADMINISTERED BY (If other the	no reconstruction		QA:	NA	
	CODE			** ******	CODE		
U.S. Department of Energy	(000)	U.S. Departmen				ODD)	
Office of Repository Develo		Office of Repository Development (ORD)					
1551 Hillshire Drive, M/S 5	23	1551 Hillshire I			3		
Las Vegas, NV 89134		Las Vegas, NV	89134	1			
8. NAME AND ADDRESS OF CONTRACTOR (No. Street,	county, State and ZIP: Code)		(V)	9A. AMENDM	ENT OF SO	LICITATION	NO.
Booz-Allen & Hamilton 8283 Greensboro Drive McLean, Virginia 2210				9B. DATED (S			ORDER NO.
			x	DE-A)2RW1	2152
CODE	FACILITY CODE		1	June	16, 20	02	
11. T	HIS ITEM ONLY APPI	LIES TO AMENDMENTS OF S	OLICI	TATIONS			
The above numbered solicitation is amended as s	et forth in Item 14. The hour ar	nd date specified for receipt of Offers		is exte	ended,	is not e	extended.
Offers must acknowledge receipt of this amendment p	rior to the hour and date specifi	ed in the solicitation or as amended, by or	ne of the fo	ollowing meth	ods:		
(a) By completing Items 8 and 15, and returning one (1 which includes a reference to the solicitation and amen OFFERS PRIOR TO THE HOUR AND DATA SPEC change may be made by telegram or letter, provided e	dment numbers. FAILURE OF FIED MAY RESULT IN REJE	YOUR ACKNOWLEDGMENT TO BE F CTION OF YOUR OFFER. If by virtue of	RECEIVED of this ame	D AT THE PL ndment you de	ACE DESI esire to cha	GNATED For an offer a	OR THE RECEIL dready submitted
12. ACCOUNTING AND APPROPRIATION DATA (If requ	ured)						
N/A							
		TO MODIFICATIONS OF CO ACT/ORDER NO. AS DESCRIE			RS,		
		CHANGES SET FORTH IN ITEM 14 ARE M THE ADMINISTRATIVE CHANGES (such a					
14, PURSUANT TO THE AUTHORITY OF FA	AR 43.103(b).	"	s changes ir	n paying office,	арргоргато	n aute, etc.) Si	ST FORTH IN THE
C. THIS SUPPLEMENTAL AGREEMENT IS E	NTERED INTO PURSUANT TO A	JUTHORITY OF:		EXEC	UTE	D	
D. OTHER Specify type of modification and author				CO	PY		
X Unilateral modification IAW		the second second					
E. IMPORTANT: Contractor X is no	t, [] is required to sign	this document and returnc	opies to	the issuin	g office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATION (a may m	
The purpose of this administrative extend the period of performance			of Tec	hnical Im	pacts" a	nd also t	5
		r contract clause H.20 "Order rember 30, 2005. Incrementa					as
September 30, 2005 to Marc	1-21-2006	s being extended, at no additi	onal co	ost to the	governn	nent, fror	n
Except at provided herein, all terms and conditions of the doc					77	enuface)	
15A. NAME AND TITLE OF SIGNER (Type or print)		Dirdia Hamilt			(1)pe or	printy	
		Birdie Hamilt					
		Contracting O			_	160 PAT	ECICNED
15B. CONTRACTOR/OFFEROR	15C. DATE SIG	BY Queles	Am	ull	R	9/2.	3/05
(Signature of person authorized to sign)	:*	(Signature of C		NDARD FO	DDM 30.0	PEV 10-8	3)

CONTRACTOR NAME AND Richard L. Toft, Ger Booz-Allen & Hamilt 1551 Hillshire Driv Las Vegas, NV 89134	neral Manager on, Inc. e	CONTROL NUMBER:	CONTRACT NUMBER: DE-AC28-02RW12152 CONTROL NUMBER: TASK ORDER NUMBER: HQ06-02				
Sub Service Manager X: Name: Date: Service Area: 702-794	Sub Service Manager X: Name: Date: Service Area: 702-794	X: Sur Sur Cle Name: Sene & Runkle Date: Sene & Runkle Tele: (702) 759- 202-536-6973	Contracting Officer's Rep X: Soldar Neme: Syed Bokhari Date: 1/21/05 Service Area: All Tele: (202) 585-2285				

DESCRIPTION OF WORK TO BE PERFORMED: See attached

SCHEDULE OF PERFORMANCE/DELIVERABLES LIST AND DUE DATES: SEE ATTACHED PAGES.

NOTE: For each deliverable required by this Task Order, the Contractor shall submit to the Contracting Officer (CO) and to the Contracting Officer's Representative (COR) a copy of the transmittal letter which evidences timely receipt of the deliverable by the Department of Energy. A separate deliverable entitled "Final Task Status Report" shall provide totals of the cost, fee, and hours expended under this Task Order, and shall be provided to the CO, COR, and Service Manager within three months after the completion date of this Task Order.

PERIOD OF PERFORMANCE: See Attached

THIS TASK ORDER IS ISSUED FURSUANT TO THE ORDERING PROCEDURES CLAUSE OF THE SUBJECT CONTRACT.

THE CONTRACTOR SHALL NOT BE PAID FOR WORK PERFORMED OR COSTS INCURRED UNDER THIS TASK ORDER PRIOR TO THE DATE OF THE CO'S SIGNATURE BELOW. IN ADDITION, THE CONTRACTOR IS NOT AUTHORIZED TO PROCEED BEYOND THE PERFORMANCE PERIOD OF THIS TASK ORDER, NOR WILL THE CONTRACTOR BE PAID FOR ANY COSTS INCURRED BEYOND THIS PERIOD, UNLESS THIS TASK ORDER IS REVISED BY THE CONTRACTING OFFICER TO AUTHORIZE ADDITIONAL PERFORMANCE AND PAYMENT.

SIGNATURE OF

DATE

Birdie V. Hamilton-Ray TYPE NAME OF

CONTRACTING OFFICER

UPL

CONTRACTING OFFICER

STATEMENT OF WORK FOR REVIEW OF TECHNICAL IMPACTS ON THE YUCCA MOUNTAIN PROJECT OF ISSUES RAISED BY USGS EMAILS

1.0 Background

The Department of Energy (DOE) Office of Civilian Radioactive Waste Management (OCRWM) is preparing an application for eventual submittal to the Nuclear Regulatory Commission (NRC) for authorization to construct a repository for spent nuclear fuel and high-level radioactive waste at Yucca Mountain in Nevada. As part of the licensing process, NRC requires that DOE make available documentary material, as defined by NRC regulations, that could be used in the licensing process. This documentary material will be made available in electronic format known as the Licensing Support Network.

During activities associated with placing documents into the Licensing Support Network, Yucca Mountain Project staff identified some e-mails that appeared to indicate a lack of compliance with Yucca Mountain Project Quality Assurance requirements. The e-mails, exchanged in the 1998 to 2004 timeframe by a small number of U.S. Geological Survey (USGS) employees, pertained to work in development of site-specific net water infiltration rate estimates for present and future climate states. The content of these e-mails raises potentially serious issues related to this scientific work and subsequent technical work products that used the net infiltration rate estimates. The most important technical work produced by the USGS employees is nine infiltration maps, issued in June 2000, that were calculated using the infiltration model.

Upon discovery of the e-mails, DOE committed to evaluate the technical and programmatic (i.e., quality assurance) impacts of the issues raised by the e-mails on the Site Recommendation, draft License Application, and Key Technical Issue agreements. To support this evaluation, OCRWM is undertaking an expert review of the technical basis that underlies these products.

2.0 Objective

The objective of this task is to obtain a review of the technical basis related to net water infiltration and climate modeling work performed by USGS employees, to support a determination of whether that technical basis is sound and appropriate for use in support of Key Technical Issue agreements, Site Recommendation, and the draft License Application.

3.0 Scope of Work

The contractor will engage the services of recognized experts in hydrology and infiltration as reviewers. These reviewers will apply their expertise in hydrology and infiltration to evaluate the technical basis related to net water infiltration and climate modeling work and the resulting infiltration rate estimates developed by USGS employees. The starting point for this work is the draft report, Evaluation of Technical

Impact on the Yucca Mountain Project from Issues Raised by E-Mails of Former Project Participants, September 2005. The reviewers will determine whether the technical basis is (a) credible and complete on its face, (b) reasonable when compared to data identified in the draft report as corroborating data, (c) consistent with statements by external parties (e.g., Nuclear Waste Technical Review Board and peer reviews as identified in the draft report), and (d) supportive of a reliable and credible estimate of infiltration for a repository in an arid environment. During this effort, the reviewers will generally follow the approach defined in NUREG-1298 for qualification of existing data.

Work will be accomplished primarily through review of the relevant documentation. Orientation and information-gathering meetings in Washington, DC and Las Vegas, NV will be conducted.

The contractor will develop a report on the topics detailed above, integrating the inputs of the reviewers and communicating with them to address any discrepancies. The report is not a consensus document but may reflect the different perspectives of the reviewers ensuring that the technical basis is fully addressed. The contractor will deliver a draft report for OCRWM review and work with OCRWM and the external reviewers as necessary to address questions and develop the final report.

4.0 Special Qualifications

The reviewers must possess expert knowledge of hydrology and infiltration and must be able to provide a technically sound evaluation of the technical basis of the infiltration rate estimates.